

Circuit Construction Kit Simulation
AP Physics

21 Points Total

Instructions:

1. Open phet.colorado.edu => play with sims => physics => electricity, magnets, & circuits => circuit construction kit (DC only), virtual lab (at the bottom on the left).
2. Under 'tools,' click both the voltmeter and ammeter buttons.
3. Copy the circuit schematics on the board on your paper, and create it on your simulation.
4. Draw a reduced schematic for each schematic on the board.
5. At the points listed on the schematics, measure the voltage and the current. Record in a data table.
6. Answer the questions listed in the rubric.

Rubric:

1. Draw given schematic (1 point) and reduced schematic with each step (3 point).
2. Data table: Point of measuring, measured voltage, measured current (3 points).
3. Repeat #1-4 for two other given circuits.